

Schleicher (Germany) Composite Structure Aircraft

Status	Subject	Detail	Reference information	TNS
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Current available on the LBA web site. www.lba.de

Schleicher TN's can be viewed at http://www.alexander-schleicher.de/index_e.htm All Technical notes should be reviewed to determine applicability.

ASW 12

M	Controls	Cable inspections Nicropress Sleeves	AD 82-216	
M	Wing spar	Internal Inspection	AD 89-115, TN 4	10/89
M	Controls	L'Hotellier couplings inspection	AD 1993-003/3	

ASW 12 In Service Reports (Advisory)

Airbrake drive behind rear seat	torque tube failure near drive lug weld	04/97
Air brake pivots	Pivot bolts may migrate if not locked	02/00
Rudder pedals	Failure of tube at attachment to pedal	04/00
Ballast weights	Unsecured ballast fouling controls due to bolt failure	04/00

ASW-15 & 15B

M	Various	Improvements to dust cover, ventilation in D box and root	AD 71-117, TN 4 & TN 6	
M	Rudder	Inspection of rudder nose	AD 73-20, TN 10	
M	Control cables	Inspection/replacement	AD 74-323/2, TN 16 a & b	
M	Service life extended	to 12,000 hours, inspections from 3 000 onwards	AD 81-91, TN 20	12/89
M	Controls	Elevator bell crank inspection	AD 81-265, TN 21	
M	Controls	Elevator drive bell crank reinforced	AD 82-221, TN 22	02/83
M	Controls	Cable inspections Nicropress Sleeves	AD 82-216	
M	Wings	Internal inspection	AD 88-95/2, TN 23/1	06/88
M	Controls	L'Hotellier coupling inspection	1993-001/3	

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<u>ASW 15 In Service Reports (Advisory)</u>				
	Rudder & fin shroud	fouls		
	Tow release cable	damaged in conduit		06/75
	Undercarriage handle knob detached	locking pin failed		08/93 & 08/83
	Ailerons oscillate if too out of balance	max 122 Kg mm TE heavy		10/97
	Tail plane mountings	Loose bolts in ply reinforcement		04/03
<u>ASW 17 & 17B</u>				
M	Controls	Control cables Inspection/replacement	AD 74-323/2, TN 3	
M	Water ballast	Water leaks in fuselage fit clips to hoses	AD 76-11, TN 6	04/76
M	Controls	Cable inspections Nicropress Sleeves	AD 82-216	
M	Wings	Internal inspection	AD 89-115, TN 12	10/89
M	Controls	L'Hotellier coupling inspection	1993-001/3	
M	Life extension	from 3 000 to 12 000 hrs after inspections	AD 93-124, TN 13	10/93
<u>ASW 17 In Service Reports (Advisory)</u>				
	Soft balsa in tailplane	caused by water ingress		04/89
<u>ASW 19 & 19B</u>				
M	Controls	Rudder stiffened, flutter avoidance	AD 76-258, TN 2	01/78
M	Structure	Rear fuselage inspection cover modify	AD 78-303, TN 7	01/79
M	Controls	Aileron hinges	AD 81-74/2	05/81
M	Manuals	Amendments	AD 84-31, TN 16	
M	Controls	Elevator flutter, modify elevator	AD 84-65, TN 17	06/84
M	Tow release	Cable too short, 12 mm minimum slack	AD 84-115, TN 18	10/84
M	Controls	Cable inspections Nicropress Sleeves	AD 82-216	
M	Controls	L'Hotellier coupling inspection	1993-001/3	
M	Life increase	from 3000 hours to 6000 hours after inspections	AD 97-010, TN 25	02/97

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Status	Subject	Detail	Reference information	TNS
<u>ASW 19 In Service Reports (Advisory)</u>				
	Canopy latch rods	bend on heavy landings - inspect		04/78
	Canopy open/close knobs	to be painted red		02/85
	Air brake mod (extra paddle)	pivot bolts fouling original blade		06/98
	Jamming of Airbrakes	Paddle mounting bolts too long		02/01
	Rudder pedal "S" guides	cracked		07/81
<u>ASW-20 series</u> (For ASW 20F see Centrair)				
M	Tow hook	Reinforcement	AD 77-294, TN 1	01/78
M	Fuselage	Inspection access	AD 78-303, TN 4	01/79
M	Controls	Inspection of Ailerons	AD 81-054, TN 12	
M	Controls	Aileron shaft	AD 81-74/2	05/81
M	Life limitation	Inspections at 3000 hours	AD 84-43, TN 17	
M	Tow release	Incorrect mounting	AD 84-115, TN 21	10/84
M	Controls	Nicropress sleeves	AD 82-216	
M	Controls	PIO measures	AD 87-148, TN 30	02/88
M	Controls	Aileron flutter	AD 87-141, TN 31	08/96 & 10/87
M	Life limitation	Inspection programme	AD 1998-255, TN 39/2	06/98
M	Controls	L'Hotellier ball & socket with lock plates	AD 1993-001/3	
<u>ASW 20 In Service Reports (Advisory)</u>				
	Canopy latch rods	bend on heavy landings - inspect		04/78
	Control hinges	corroded rivets		12/79
	Flap vibration	backlash		05/81
	Flap control stops insecure	rivet into place if necessary		02/83
	Flap malfunction	lock nuts at pilots' lever loose		12/84
	Rudder cables	sever bend at rudder		08/85
	Canopy open/close knobs	to be painted red		02/85

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Status	Subject	Detail	Reference information	TNS
	Ballast dump valve inoperative	corrosion of swages in cockpit		10/90
	Elevator control restriction	foul between incorrectly fitted bolts		06/96
	Rudder Controls	Severe corrosion on control horn		2-2009

ASK-21

M	Placards	Revised cockpit placards	AD 81-92, TN 5b	03/81 & 07/81
M	Tow release	Modification to release cable	AD 84-02, TN 10	06/84 & 04/84
M	Flight manual	Revision	AD 84-32/2, TN 13a	
M	Controls	Nicropress sleeves	AD 82-216	
M	Structure	Inspection of wheel box cut out	AD 84-180, TN 17	
M	Controls	Inspection and replacement of rudder pedal support	AD 86-236, TN 19	
M	Various	Inspection of rudder pedals, airbrake, canopy and manual rev.	AD 88-02, TN 20	08/93 & 04/88
M	Controls	Elevator control inspection	AD 90-350, TN 22	02/91
M	Flight manual	Revision	AD 91-112, TN 23	12/91
M	Life limitation	Increase of service life	AD 94-026, TN 24	04/94
M	Controls	L'Hotellier inspection	AD 1993-001/3	
M	Controls	Inspection of elevator rod	AD 93-186, TN 26	12/93

ASK 21 In Service Reports Advisory

Trim indicator Bowden cable	fouls controls below floor - clip as necessary	10/83
Wheel fouls wheel box	cut extra clearance if necessary	12/84
U/C retention stud	failures	12/87
Rear canopy gas strut hinge pins	inspect for wear	10/93
Rudder pedal jamming	loose nylon tube	04/92
Front canopy jettison	inoperative, incorrectly aligned nuts	02/94
Rear Canopy	Frames broken at jettison failure point	5-2006
Rear canopy	Failed to detach after opening in flight	1-2007
Rudder pedal cable guides	Nylon tube inserts, glue into place	
Front/rear canopy	Lock interlock ineffective	1-2007, 5-2008, 1-2009

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Status	Subject	Detail	Reference information	TNS
<u>ASW-22 & 22B</u>				
M	Controls	Nicropress sleeve inspection	AD 82-216	
M	Trim spring	to be changed	AD 85-90, TN 2	08/85
M	Elevator drive	annual check	AD 91-148, TN 7	10/91
M	Controls	L'Hotellier connectors inspection	AD 1993-001/3	
M	Service life	Extension	AD 2002-076, TN13	04/02
M	Controls	Replace flap control lever	AD 2008-0059, TN 16	2-2008
<u>ASW 22 In Service Reports (Advisory)</u>				
	Flap lever failed to lock	inspect system (weak spring?)		10/98
<u>ASK-23 & 23B</u>				
M	Nose wheel box	reinforce	AD 85-203, TN 2	12/85
M	Automatic elevator connector	inspect parallel rocker	AD 90-350, TN 8	02/91
M	Controls	L'Hotellier connectors inspection	AD 1993-001/3	
M	Main landing gear bulkhead	inspect	AD 93-196, TN 10	02/94
M	Extension of service life	to 12 000 hours, inspections after 3 000 hours	AD 97-244, TN 12	10/97
M	Controls	Nicropress sleeves	AD 82-216	
<u>ASK 23 In Service Reports (Advisory)</u>				
	Trim spring	failures		04/87
	Rudder travel restricted	by loose nylon tubes		08/88
	Air brake lever fractures	at weld at pilots handle		12/91

ASW-24

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Status	Subject	Detail	Reference information	TNS
M	Minor modifications to Schleicher letter	models pre serial number 50		02/90
M	Controls	Nicropress sleeves	AD 82-216	
M	Engine support	Inspection ASW 24E	AD 92-8, TN 2	

ASW 24 In Service Reports (Advisory)

	Undercarriage support structure	reinforce		02/90
	Fuselage drainage (ballast leaks)	introduce		02/90
	Flying controls	Aileron hinges dis-bonded from wing		04/01

ASH-25

M	Elevator	Inspection ASH 25	AD 91-147, TN 6	
M	Controls	L'Hotellier connectors inspection	AD 1993-001/3	
M	Various	Service life, controls inspection, FM amendments	AD 1998-486, TN 14	
M	Controls	Flap lever replacement	AD 2008-0059, TN 20	2/2008
M	Controls	Nicropress sleeves	AD 82-21	

ASH 25E & ASH 25 M

M	Various	Controls inspection, FM & MM amendments, replace hoses	AD 91-146, TN 4	
M	Controls	L'Hotellier connectors inspection	AD 1993-001/3	
M	Various	Service life, controls inspection, landing gear, FM amnd.	AD 1998-486, TN 12	
M	Power plant	Insp & change exhaust damper	AD 1999-376, TN 15	
M	Fuel	Inspection & replacement of fuel line	AD 2003-129, TN 22	
M	Controls	Flap lever replacement	AD 2008-0059, TN 28	
M	Controls	Nicropress sleeves	AD 82-216	

ASH 25 series In Service Reports (Advisory)

Flap control found bent whilst inspection for AD 2008-0059

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Status	Subject	Detail	Reference information	TNS
<u>ASH-26</u>				
M	Controls	Nicropress sleeves	AD 82-216	
<u>ASH 26 E</u>				
M	Engine internal cooling	change fan & temp sensor	AD 97-009, TN 1	02/97
M	Engine	Inspection & replacement of rotor cooling air fan	AD 1998-391, TN 5	
M	Engine fire prevention	various inspections and actions	AD 98-347, TN 6	10/98
M	Exhaust muffler modification	change for improved type	AD 1999-311, TN 8	10/99
M	Controls	Nicropress sleeves	AD 82-216	
<u>ASW-27</u>				
M	Elevator high friction - inspect	mass balance in fin rubs on rib	AD1999-283, TN 5	10/99
M	Amendments	Flight, Maint, and repair manual amendments	AD 2000-305, TN 6	10/00
M	C of G limitations	Corrections when using water ballast	AD 2002-086, TN 9	04/02
<u>ASW 28</u>				
None				
<u>ASW 28E</u>				
M	Engine	RPM sensor, Fuel Pump & Instrument improvements	AD 2007-0042, TN 2	1-2007